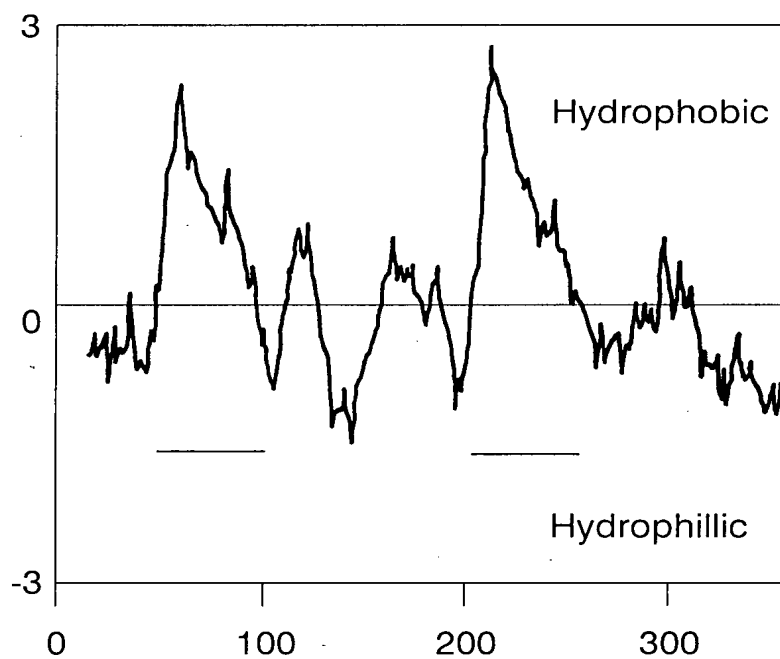
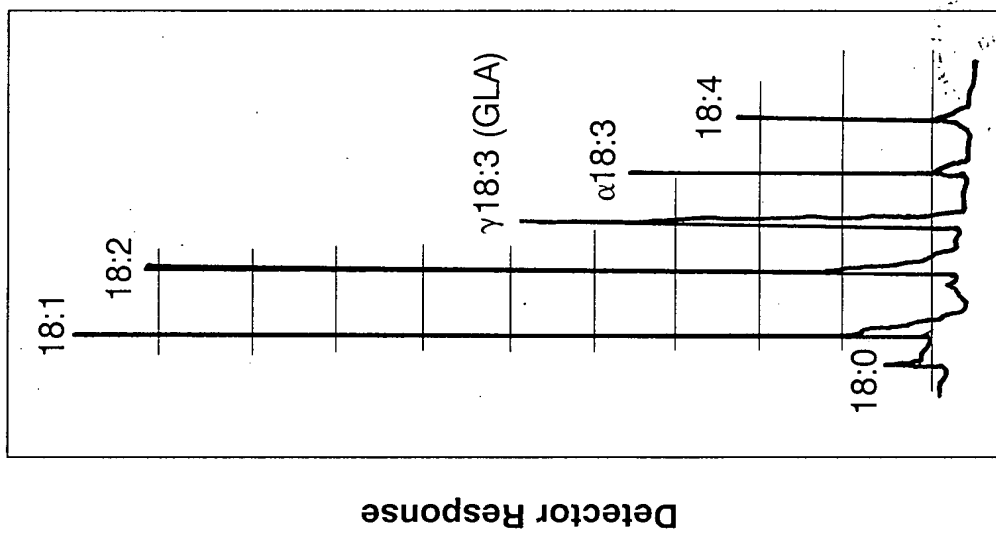
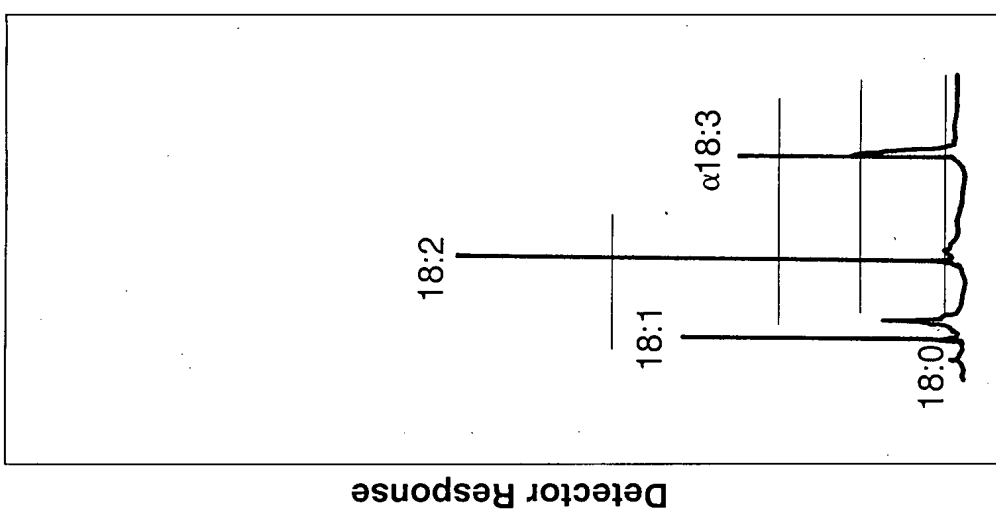
**FIGURE 1A****FIGURE 1B**



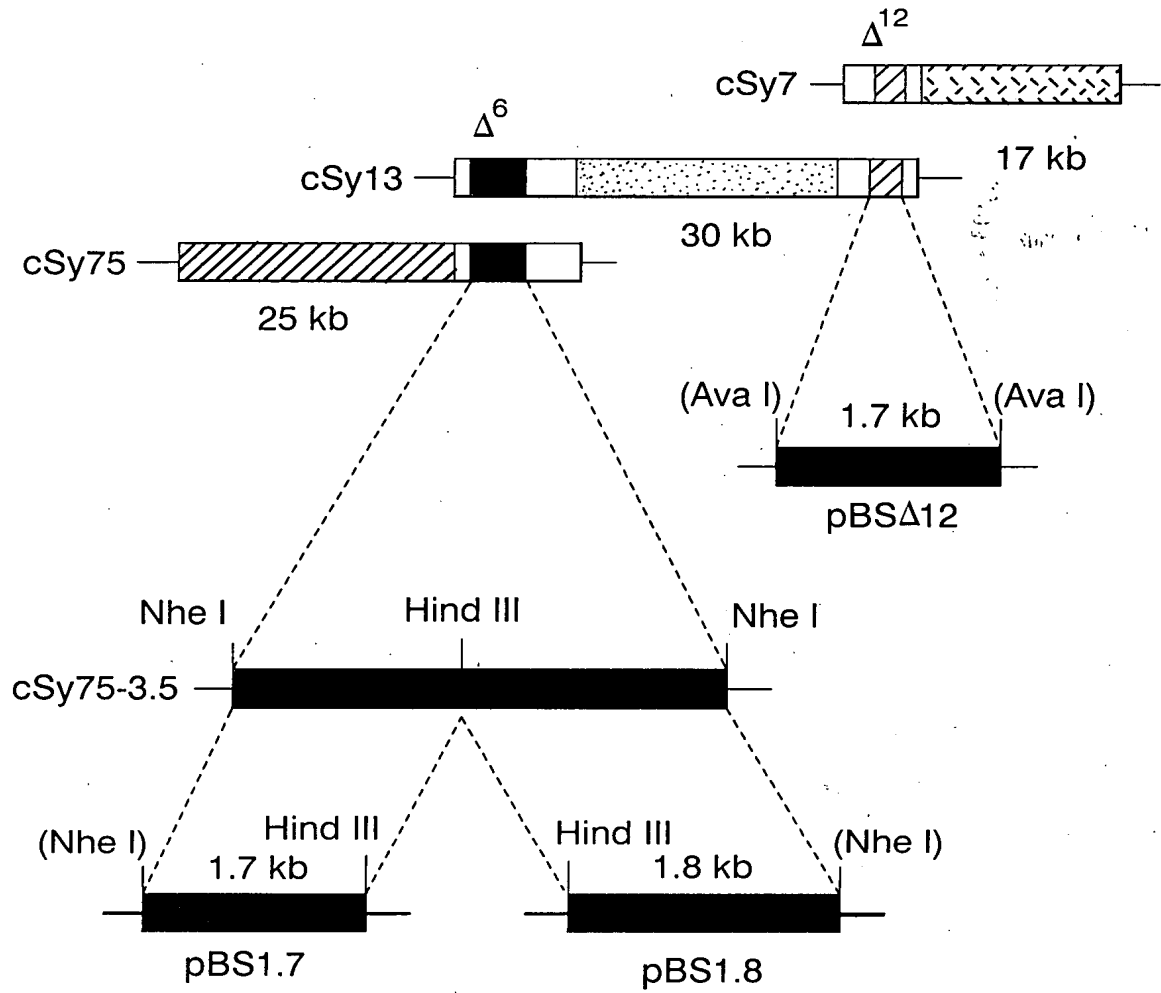
Retention Time

FIGURE 2B



Retention Time

FIGURE 2A

**FIGURE 3**

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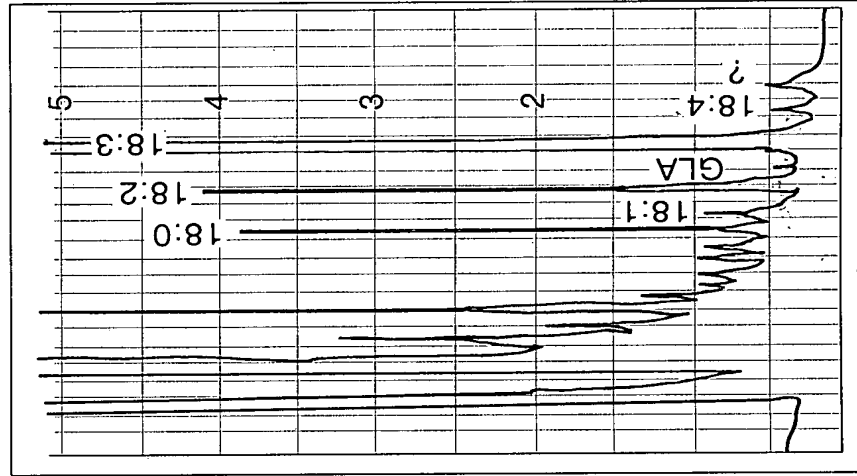


FIGURE 4B

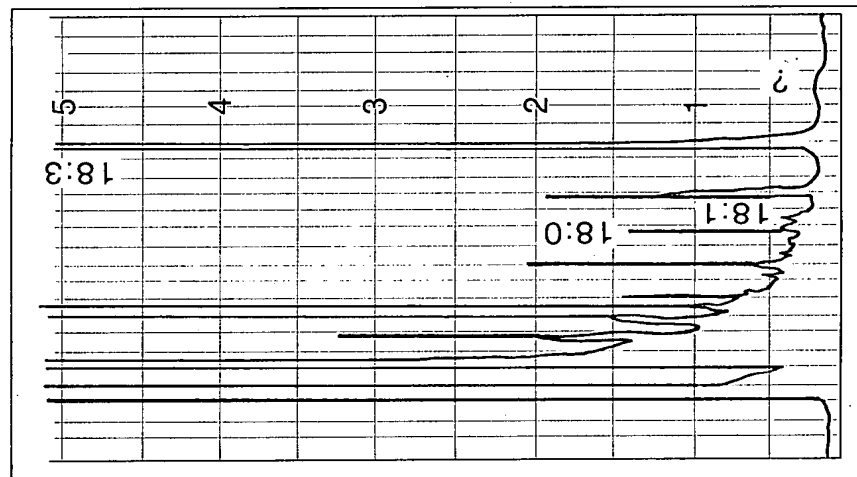


FIGURE 4A

A - - - - - A

```

1  aatatctgccc  taccctccca  aagagagtag  tcatTTTTca  tcaatggctg
81  aactcaagaa  ccacgataaa  cccggagatc  tatggatctc  gattcaaggg
161  gaccatccag  gtggcagctt  tcccttgaag  agtcttgctg  gtcaagaggt
241  ctctacatgg  aagaatcttg  ataagttttt  cactgggtat  tatcttaaa
321  ataggaaagct  tgtgttgag  ttttctaaaa  tgggtttgta  tgacaaaaaa
401  atagcaatgc  tgtttgctat  gagtgtttat  ggggttttgt  tttgtgagg
481  gatggggttt  ctttggattc  agagtgggtg  gatggacat  gatgctggc
561  ataaagtatat  ggttatttt  gctgcaaat  gtctttcagg  aataagtatt
641  cacattgcct  gtaatagcct  tgaatatgac  cctgatttac  aatatatacc
721  ttcactcacc  tctcatTTct  atgagaaaa  gttgactttt  gactctttat
801  cattttacc  tattatgtgt  gctgctaggc  tcaatatgta  tgtacaatct
881  tcctatcgag  ctgaggaaact  ctgggatgc  ctagtgttct  cgatttggt
961  gggtgaaaga  attatgtttg  ttattgcaag  ttatcagtg  actggaatgc
1041  ctccaagtgt  ttatgttgga  aagcctaaag  ggaataatlg  gtttgagaaa
1121  cctcccttga  tggattggtt  tcatggtgga  ttgcaattcc  aaattgagca
1201  ccttaggaaa  atctcgccct  acgtgatcga  gttatgcaag  aaacataatt
1281  ccaatgaaat  gacactcaga  acattgagga  acacagcatt  gcaggctagg
1361  gtatgggaag  ctcttcacac  tcatgggttaa  aattaccctt  agttcatgta
1441  gtgtcttgc  ttggttctac  ttgttggagt  cattgaaact  tgtcttttat
1521  gaggttttgc  ttcatctcc  attattgatg  aataaggagt  tgcatattgt
1601  gaatgtactt  tgtaccactg  tgtttcagt  tgaagctcat  gtgtacttct
1681  tattt

```

FIGURE 5A(1)

FIGURE 5A(2)

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A - - - - - A

1 MAAQIKKYIT SDELKNHDKP GDLWISIQGK AYDVSDWVKD HPGGSFPLKS
81 LKDYSVSEVS KDYRKLVFEF SKMGLYDKKG HIMFATLCFI AMLFAMSVYG
161 AGHYMVVSDS RLNKFMGIFA ANCLSGISIG WWKWNHNAHH IACNSLEYDP
241 SLSRFFVSYQ HWTFFYPIMCA ARLNMYVQSL IMLLTKRNVSYRAQELLGCL
321 GMQQVQFSLN HFSSSVYVGK PKGNNWFEEK TDGTLDISCP PWMDWFHGGI
401 HNL PYN YASF SKANEMTLRT LRNTALQARD ITKPLPKNLV WEALHTHG

FIGURE 5B(1)

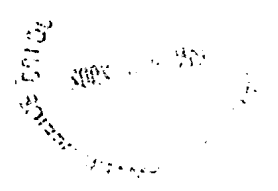
RECEIVED
JUL 27 1964
U.S. AIR FORCE

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A | | | | | A

LAGQEVTD	AF	VA	FH	P	A	S	T	W	K	N	L	D	K	F	F	T	G	Y	Y	80										
VL	F	C	E	G	V	L	V	H	L	F	S	G	C	L	M	G	F	L	W	I	Q	S	G	W	I	G	H	D	160	
D	L	Q	Y	I	P	F	L	V	V	S	S	K	F	F	G	S	L	T	S	H	F	Y	E	K	R	L	T	F	D	240
V	F	S	I	W	Y	P	L	L	V	S	C	L	P	N	W	G	E	R	I	M	F	V	I	A	S	L	S	V	T	320
Q	F	Q	I	E	H	H	L	F	P	K	M	P	R	C	N	L	R	K	I	S	P	Y	V	I	E	L	C	K	K	400
																													448	

FIGURE 5B(2)



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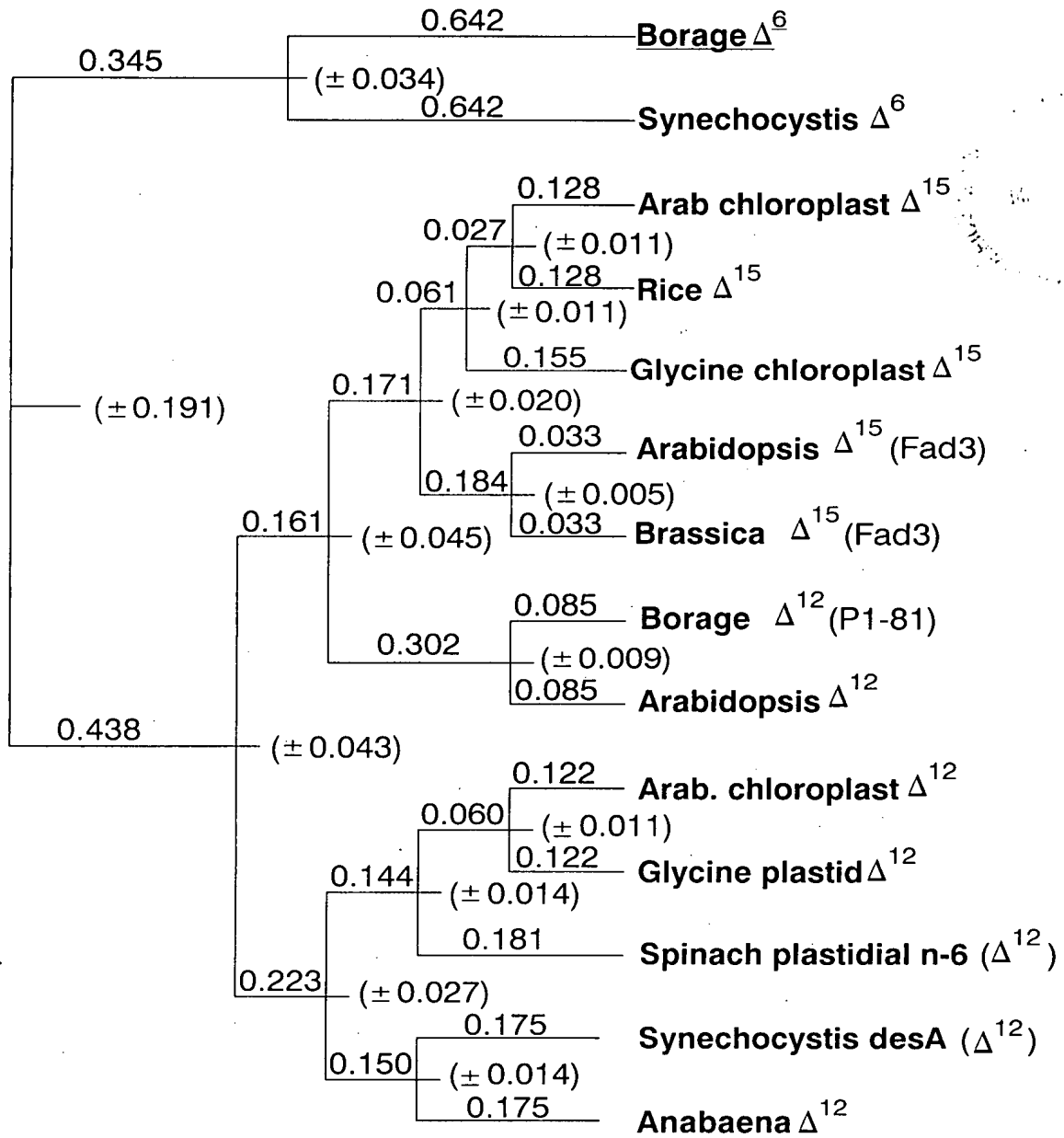
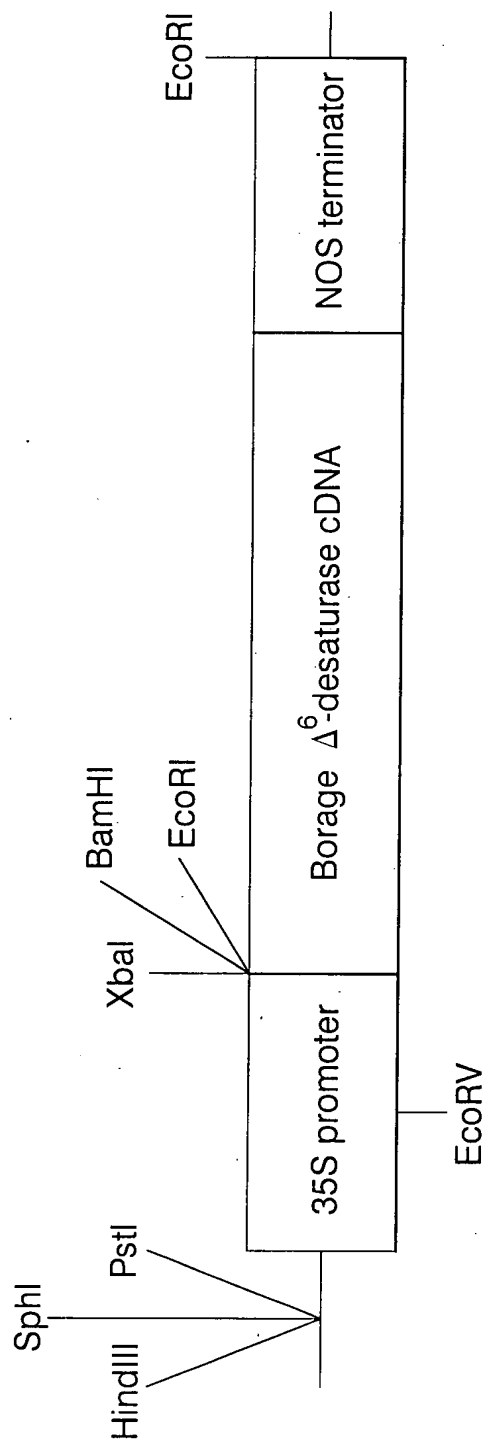


FIGURE 6

**FIGURE 7**

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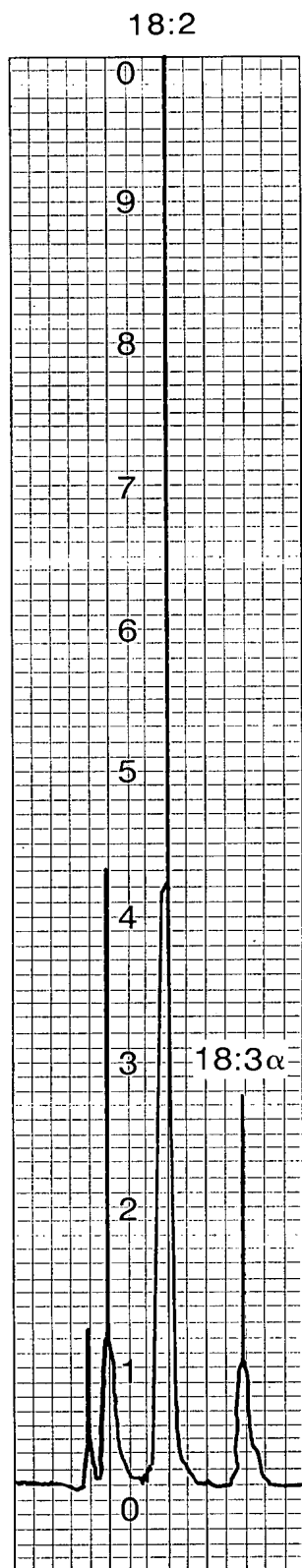


FIGURE 8A

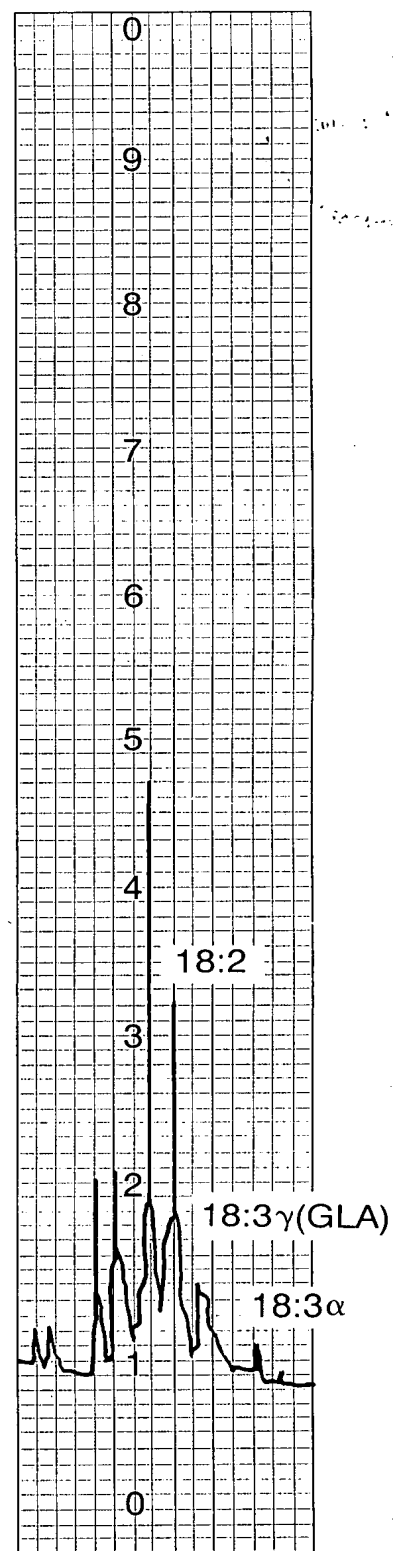


FIGURE 8B

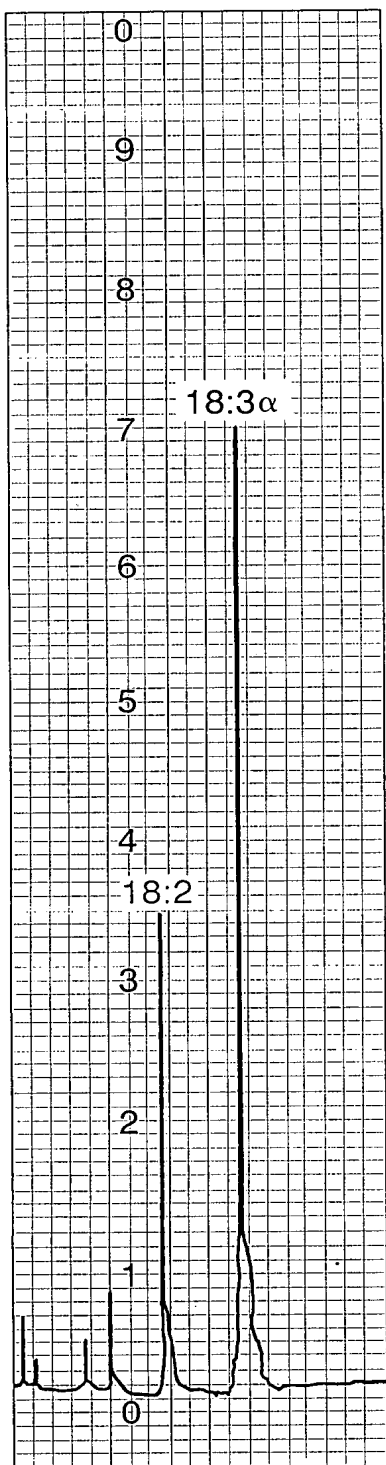


FIGURE 9A

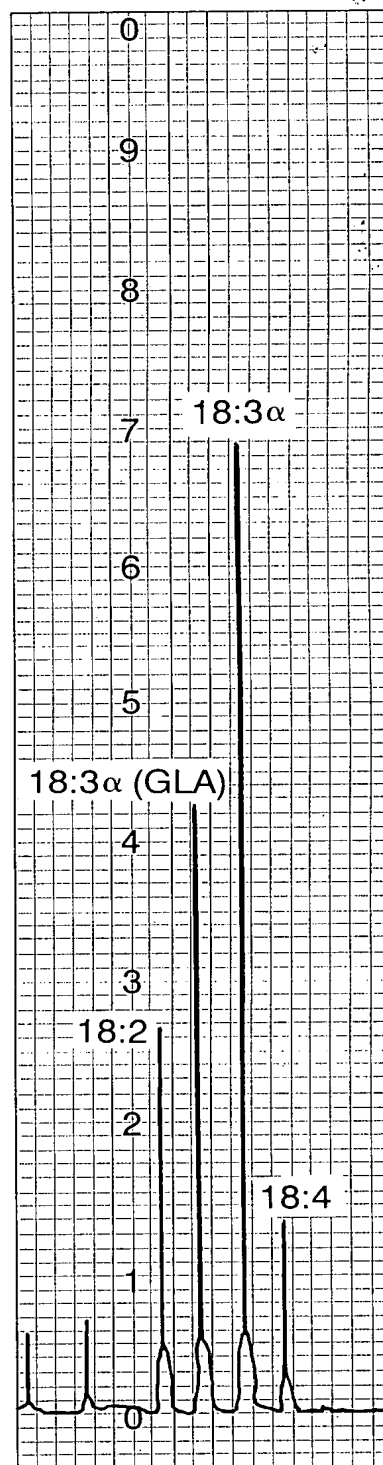


FIGURE 9B

CCCCAAAATTTCATTGTTCTCCATCTGGACCACAGCA

GCT	AAG	AAG	TAT	ATC	ACG	GCG	GAG	GAC	CTC	CGC	CGC	CAC	AAC
A	K	Y	I	T	A	E	D	L	R	R	H	N	
ATC	TCC	ATC	CAG	GGC	AAG	GTC	TAC	GAC	GTC	TCT	CGG	TGG	GCG
I	S	I	Q	G	K	V	Y	D	V	S	R	W	A
GAG	GTC	CCG	CTC	CTC	ATG	CTG	GCC	GGC	CAG	GAC	GTC	ACC	GAC
E	V	P	L	L	M	L	A	G	Q	D	V	T	D
CCG	GGC	ACG	GCG	TGG	CGG	CAT	CTG	GAT	CCG	CTC	TTC	ACC	GGC
P	G	T	A	W	R	H	L	D	P	L	F	T	G
GAA	GTG	TGG	GAG	ATC	TCC	AAG	GAC	TAC	CGG	AGG	CTT	TTG	AAC
E	V	S	E	I	S	K	D	Y	R	R	L	L	N
ATC	TTC	GAG	AAG	AAG	GGC	CAC	CAC	ATC	ATG	TGG	ACG	TTC	GTC
I	F	E	K	K	G	H	H	I	M	W	T	F	V
GCG	GCA	ATC	GTC	TAC	GGC	GTG	CTG	GCG	TGG	GAG	TCC	GTC	GGA
A	A	I	V	Y	G	V	L	A	S	E	S	V	G
GCA	CTG	CTG	GGC	TTG	CTG	TGG	ATC	CAA	GCC	GCG	TAT	GTG	GGC
A	L	L	G	L	L	W	I	Q	A	A	Y	V	G

3

FIGURE 10A

A

A circular diagram illustrating the components of the economic environment. At the center is a circle labeled "Economic Environment". Surrounding this central circle are seven rectangular boxes, each representing a different factor. Arrows point from each of these outer boxes toward the central circle, indicating their influence on the overall economic environment. The factors, starting from the top and moving clockwise, are: Government, Business, Labor, Capital, Technology, Institutions, and Culture.

FIGURE 10B

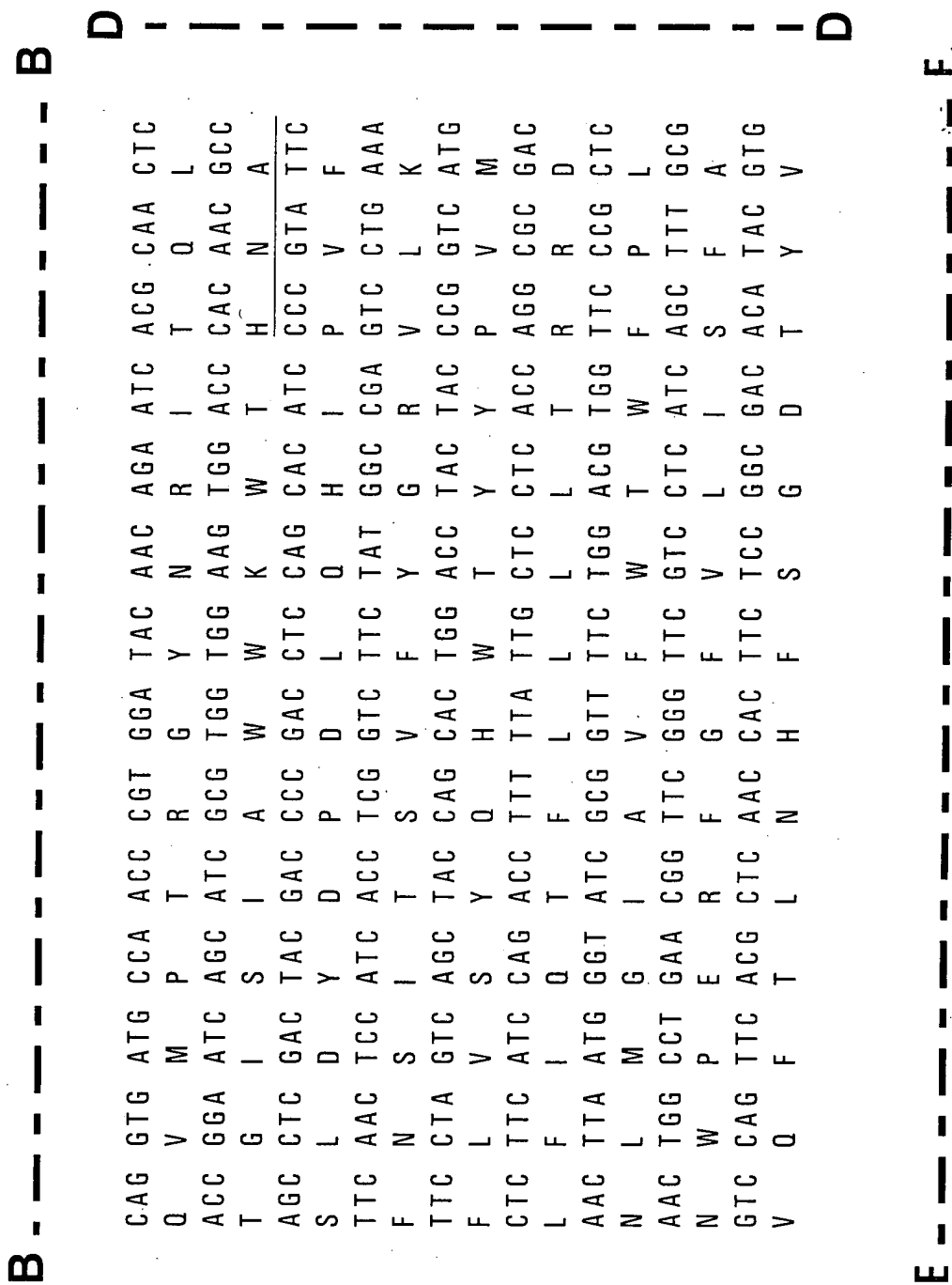


FIGURE 10C

D	C	C	F
---	---	---	---
ATA GCA GGC AAC ATC CTA			
I A G N I L			
CAC CAC CTC GCC TGC AAC			
H H L A C N			
GCC GTC TCC ACC CGA CTC			
A V S T R L			
TTC GAC GAA GTG GCA CGG			
F D E V A R			
ATC TTC GGC CGA GTC AAC			
I F G R V N			
GTC CCT GAC CGC GCT CTA			
V P D R A L			
TTC GTA TCT TGT CTC CCG			
F V S C L P			
GTC ACG GCG ATC CAG CAC			
V T A I Q H			
GGC CCC CCC AAG GGC GAC			
G P P K G D			
D	C	C	F
---	---	---	---

FIGURE 10D

E - - - - -
 AAC TGG TTC GAG AAG CAG ACG AAA GGG ACG ATC GAT ATC ACG
 N W F E K Q T K G T I D I T
 TGG TTC TTT GGT GGG CTG CAG TTC CAG TTG GAG CAC CAC TTG
 W F F G G L Q F O L E H L
 GGG CAG CTT AGG AAG ATT GCG CCC TTG GCT CCG GAC TTG TGT
 G Q L R K I A P L A R D L C
 TAT AGG AGC TTC GGG TTT TGG GAC GCT AAT GTC AGG ACA ATT
 Y R S F G F W D A N V R T I
 GCG GTT CAG GCG CGT GAC CTT AAT TCG GCC CCG TGC CCT AAG
 A V Q A R D L N S A P C P K
 GCT TAT AAC ACC CAT GGT TGA TTG TGG TTT TGT GTT GTG GGT
 A Y N T H G *
 TTGATTTATGTCCACAATATTGAACCTGAATAACCATGGAAAGGCACCTACGTTTCAGCT
 CCCTTGTGGGGCAAGTGCAGTATTTATTTCTTATCCCATGTACTTTTGGATT
 TAAATTATATTGATTAAATTTTGTGTAGTTGGGTGCTATAGCAAGTTTATAAT
 AAAAAAAA
 G - - - - - G

FIGURE 10E

F --- F
 G | | | | | | | | G
 TGC CCA CCG TGG ATG GAC
 C P P W M D
 TTC CCT AGG CTG CCG CGT
 F P R L P R
 AAG AAG CAC GGG ATG CCG
 K K H G M P
 CCG ACG CTG AGG GAT GCG
 R T L R D A
 AAA CTT GGG TAT GGG GAA
 K L G Y G E
 TGG AGG ATC TTC TTA TTA
 TAACCTTGCTAGCTGGTTGCGTT
 ATTGTTCTTATTCGTATCATATAA
 ACTGAGATATATTTTTTGGTAA

FIGURE 10F

EP vs Bo Delta 6-desaturase Formatted Alignment

EPD6prot	MEGEAKKYIT	AEDLRHMKKS	GDLWISIQGK	VYDVSRMAAE	HPGGEVPLLM	50				
BoD6prot	MAAQIKKYIT	SDELKNDKIP	GDLWISIQGK	AYDVSDWVKD	HPGGSFPLKS	50				
Consensus	M...KKYIT	...L...H.K.	GDLWISIQGK	.YDVS.W.	HPGG..PL..	50				
EPD6prot	LAGQDVTDAF	IAYHPGTAWR	HLDP	FTGY Y LKDFE	VSEI S	KDYRRLLNEIM	100			
BoD6prot	LAGQEVTDAF	VAFHPASTWK	NLDKFF	FTGY Y LKDY S	VSEVS	KDYRRLLVFEF	100			
Consensus	LAGQ.VTDAF	.A.HP...W.	.LD.	FTGY Y LKD..	VSE.S	KDYR.L.E.	100			
EPD6prot	SRSGIFEKKG	HIMMTFVG	AVMMAAIVYG	VIASESVGVH	MLQGALLGL	150				
BoD6prot	SKMGLYDKKG	HIMFATLCFI	AIMLFAMSVYG	VLFCEGVLVH	LFSGCLMGFL	150				
Consensus	S..G..KKGH	...T...H	A...A...VYGVL	.E.V.VH	.G.L.G.L	150				
EPD6prot	WIQAAYMGHD	SGHYQVMPTR	GYNRI	TQLIA	GMI	LIIGISIA	WWKWI	HNAHH	200	
BoD6prot	WIQSGWIGHD	AGHYMVVSDS	RINKF	MGI	FA	ANCL	SGISIG	WWKWN	HNAHH	200
Consensus	WIQ...GHD	.GHY.V	.N.	...A	.N.	L	.GISI	WWKW	HNAHH	200

A-----A

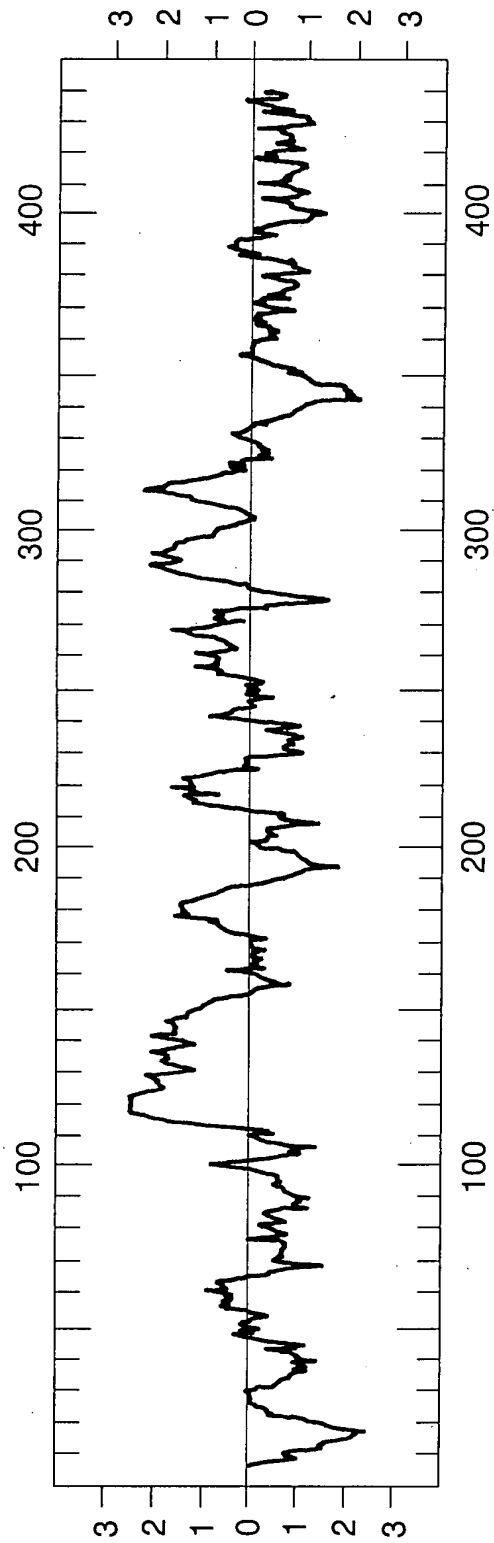
FIGURE 11A

A - - - - - A

EPD6prot	LACNSLCYDP	DLQH	IPVFAV	STR	INS	TS	VFYGRVLR	FRD	EVARFI	VSYQ	250	
BoD6prot	IACNSLEYDP	DLOV	IPFLVV	SSKFGSL	TS	HFYEKRL	IFD	SLSRFF	VSYQ	250		
Consensus	ACNSL	YDP	DLQ	IP	VS	TS	FY	LF	RF	VSYQ	250	
EPD6prot	HWTMYPM	F	GRVNLFI	QTF	LL	LT	RRRCVP	DRAL	NLMGI	A	300	
BoD6prot	HWTRYPI	MCA	ARL	NMYVQSL	I	ML	LT	RRNV	YRAQEL	IGCL	300	
Consensus	HWT	YP	M	R	N	Q	LLT	R	V	RA	300	
EPD6prot	SCLPNWPER	F	GFVL	ISFAVT	AI	QRVQFI	LN	HFS	GDTYVGP	PKGQ	NWFEKQ	350
BoD6prot	SCLPNWGER	I	MFVI	ASLSVT	GMQDVQF	SLN	HFS	SSVYV	GK	PKGN	NWFEKQ	350
Consensus	SCLPNW	ER	FV	S	VT	Q	VQF	LN	HFS	YVG	NWFEKQ	350
EPD6prot	TKGT	DI	ICP	PWMDWF	FGGL	QFQL	EHHLFP	RI	PRGQ	L	RKI	400
BoD6prot	TGTL	DI	SCP	PWMDWF	HGGL	QFQI	KHHLFP	KMPRC	NL	RKI	SPYVI	400
Consensus	T	GT	DI	CP	PWMDWF	GGL	QFQ	KHHLFP	PR	L	RKI	400

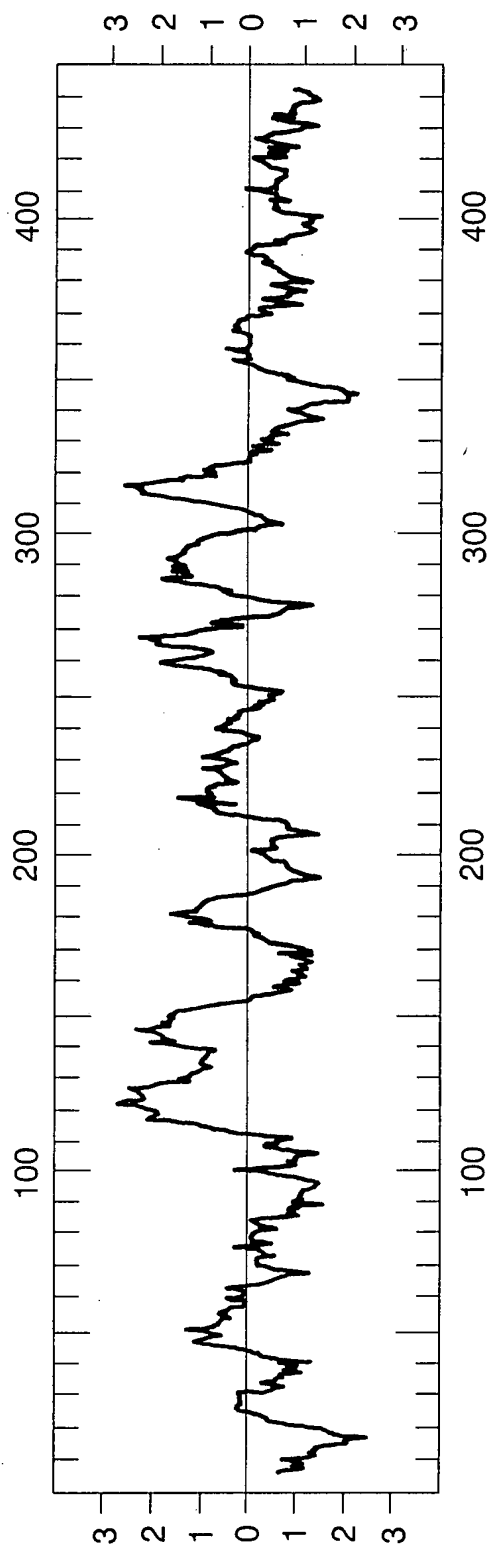
B - - - - - B

FIGURE 11B



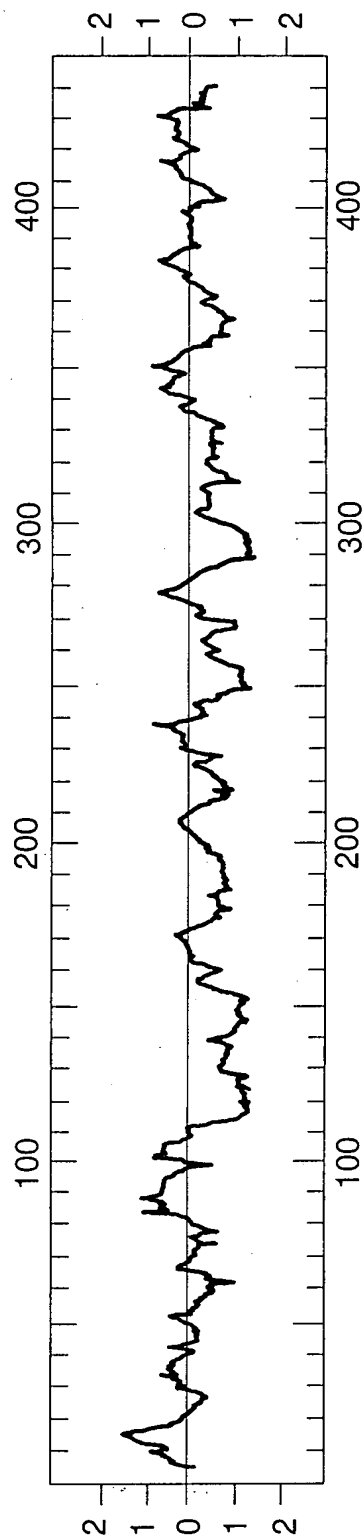
Borage Δ^6 -Desaturase Kyte-Doolittle Hydrophobicity Plot

FIGURE 12A



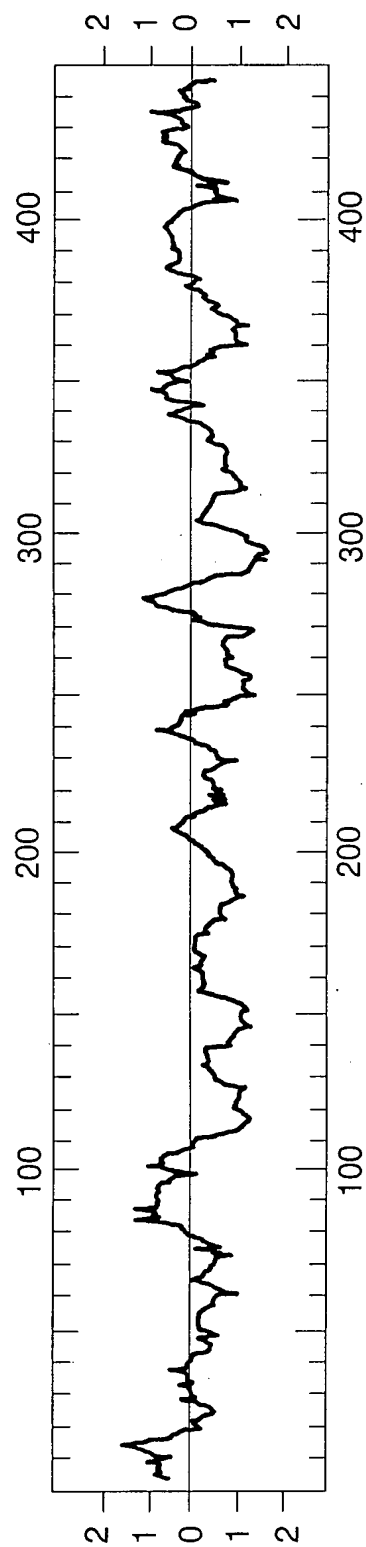
Evening Primrose Putative Δ^6 -Desaturase Kyte-Doolittle Hydrophobicity Plot

FIGURE 12B



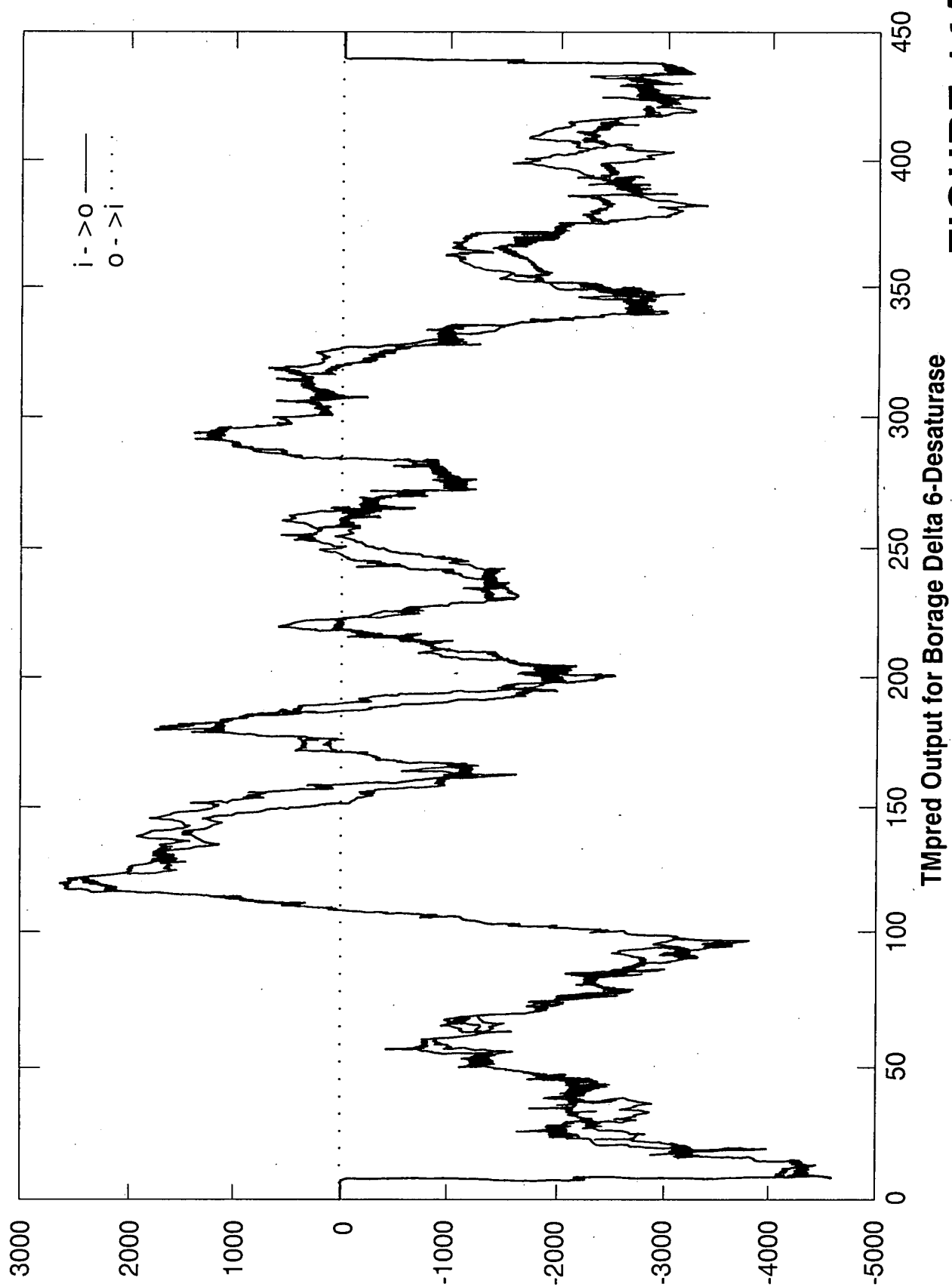
Borage Δ^6 -Desaturase Hopwood Hydrophilicity Plot

FIGURE 13A



Evening Primrose Putative Δ^6 -Desaturase Hopwood Hydrophilicity Plot

FIGURE 13B

**FIGURE 14A**

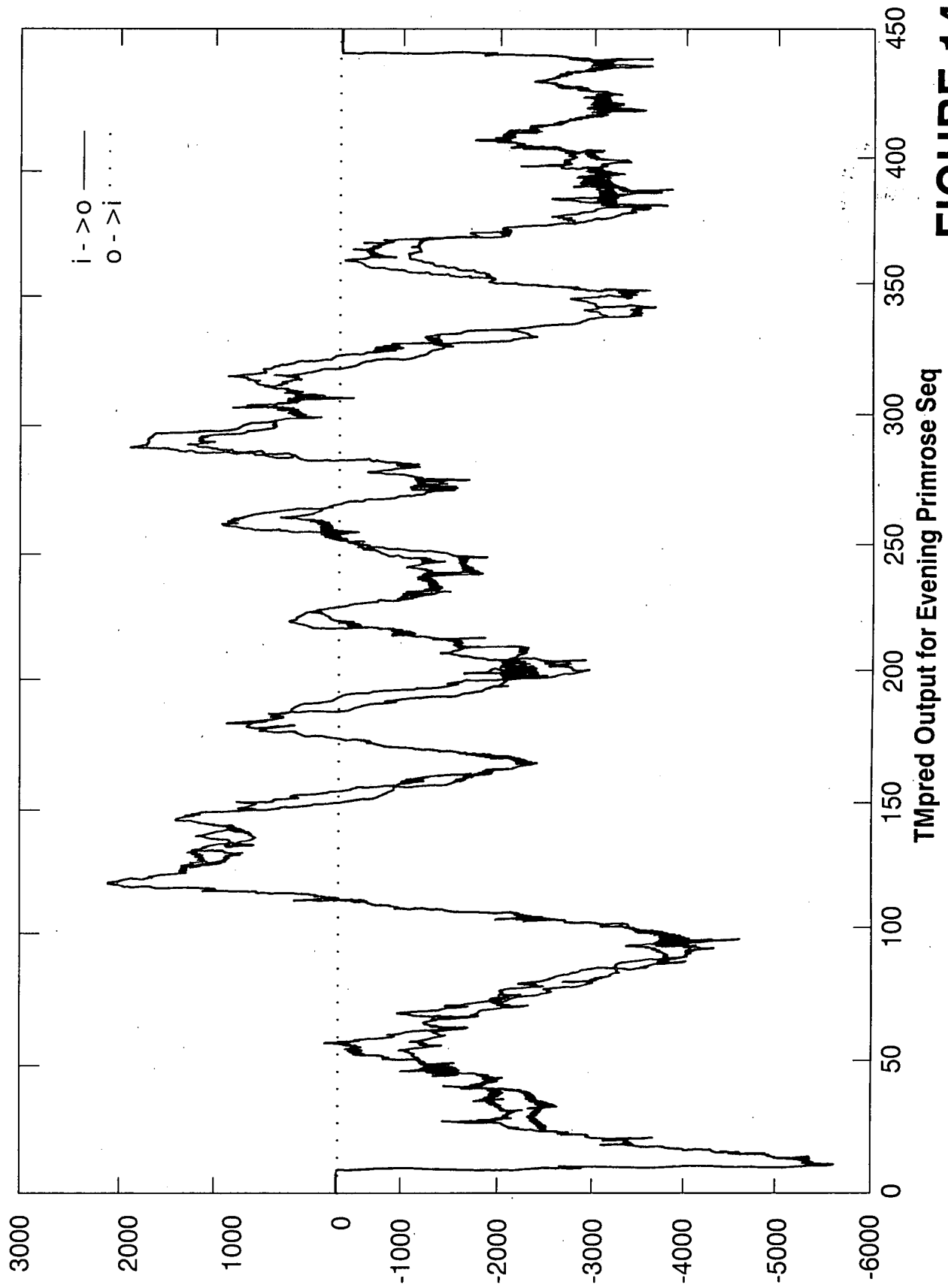


FIGURE 14B